

What is claimed is:

- 1     1.     A method comprising communicating with a notebook computer over a  
2     wireless personal area network (WPAN) to cause the notebook computer to  
3     communicate over a network other than the WPAN.
- 1     2.     The method of claim 1 wherein the network other than the WPAN comprises  
2     a wireless local area network.
- 1     3.     The method of claim 2 wherein the wireless local area network comprises an  
2     802.11 compliant network.
- 1     4.     The method of claim 1 wherein the network other than the WPAN comprises  
2     a wireless wide area network.
- 1     5.     The method of claim 4 wherein the wireless wide area network comprises a  
2     General Packet Radio Service (GPRS) network.
- 1     6.     The method of claim 1 wherein the method is performed by a handheld  
2     communications device.
- 1     7.     The method of claim 1 wherein communicating with a notebook computer  
2     over a wireless personal area network comprises communicating with a Bluetooth  
3     compliant protocol.
- 1     8.     A method comprising:  
2         receiving a request over a wireless personal area network (WPAN) to  
3         connect to a network other than the WPAN;  
4         connecting to the network other than the WPAN; and  
5         responding to the request over the WPAN.

- 1 9. The method of claim 8 further comprising connecting to the network in  
2 response to the request.
- 1 10. The method of claim 9 further comprising synchronizing information in a  
2 personal information manager.
- 1 11. The method of claim 9 further comprising downloading email.
- 1 12. The method of claim 9 further comprising notifying a device that made the  
2 request.
- 1 13. The method of claim 8 wherein the request includes a request to connect to a  
2 corporate network.
- 1 14. The method of claim 13 wherein the request to connect to a corporate  
2 network comprises connecting using cached credentials.
- 1 15. The method of claim 8 wherein the request includes a request to connect to  
2 an access point in a wireless local area network.
- 1 16. The method of claim 15 wherein the request to connect to an access point  
2 comprises connecting to an 802.11 compliant access point.
- 1 17. The method of claim 8 wherein the request includes a request to connect to a  
2 wireless wide area network.
- 1 18. The method of claim 17 wherein the request to connect to a wireless wide  
2 area network comprises connecting to a General Packet Radio Service (GPRS)  
3 network.

- 1     19.     An apparatus comprising:  
2             a wireless personal area network (WPAN) interface;  
3             a wireless local area network (WLAN) interface; and  
4             a controller to access the WPAN interface and the WLAN interface, and to  
5     access memory shared with a microprocessor in a computer while the  
6     microprocessor is in a low power state.
- 1     20.     The apparatus of claim 19 wherein the WPAN interface comprises a  
2     Bluetooth compatible interface.
- 1     21.     The apparatus of claim 19 wherein the WLAN interface comprises an 802.11  
2     compatible interface.
- 1     22.     The apparatus of claim 19 wherein the controller is configured to  
2     communicate with a Bluetooth enabled device using the WPAN interface and an  
3     802.11 compatible device using the WLAN interface while the microprocessor is in  
4     the low power state.
- 1     23.     An apparatus including a medium to hold machine-accessible instructions  
2     that when accessed result in a machine performing:  
3             communicating with a notebook computer over a wireless personal area  
4     network (WPAN) to cause the notebook computer to communicate over a network  
5     other than the WPAN.
- 1     24.     The apparatus of claim 23 wherein the network other than the WPAN  
2     comprises a wireless local area network.

1 25. The apparatus of claim 23 wherein communicating with a notebook  
2 computer over a wireless personal area network comprises communicating with a  
3 Bluetooth compliant protocol.

1 26. An electronic system comprising:  
2 a wireless personal area network (WPAN) interface;  
3 a wireless local area network (WLAN) interface;  
4 a plurality of antennas coupled to the WLAN interface;  
5 a microprocessor capable of entering a low power state;  
6 shared memory coupled to the microprocessor; and  
7 a controller to access the WPAN interface and the WLAN interface, and to  
8 access the shared memory while the microprocessor is in the low power state.

1 27. The electronic system of claim 26 wherein the WPAN interface comprises a  
2 Bluetooth compatible interface.

1 28. The electronic system of claim 26 wherein the WLAN interface comprises  
2 an 802.11 compatible interface.

1 29. The electronic system of claim 26 wherein the electronic system comprises a  
2 notebook computer.